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United States Department of Agriculture  
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A SIMPLE HAND DUSTER FOR THE APPLICATION OF  
SMALL QUANTITIES OF DUST

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In conducting insecticide tests with various dusts on potted pea plants, it was found desirable to have a duster which (1) would uniformly apply a very small quantity of material, (2) would have a dust container that was interchangeable and could be easily cleaned, and (3) that could be easily and cheaply constructed. The device herein described has proven very satisfactory; it was constructed in a few minutes' time from parts of an old hand fly-spray atomizer and a 50-cc. filter flask (fig. 1, A).

The nozzle and insecticide container were removed from the old spray atomizer, and a small brass tube (fig. 1, C) of one-eighth inch inside diameter was soldered to the air outlet of the pump chamber.

The one-way air valve (fig. 1, B) which is present in the majority of sprayers should be between the pump chamber and the air outlet. The brass tube is bent and extends through a cork and into the filter flask, as shown in the diagram. The cork is pressed firmly into the flask and serves to hold the latter in position.

For the best results it is desirable to place a small quantity of material in the flask at one time. After one material has been applied, the flask may be cleaned quickly with a piece of cloth and is then ready to receive the next material, or other flasks may be substituted.

The dimensions given in figure 1 are those of the pump chamber that chanced to be available.



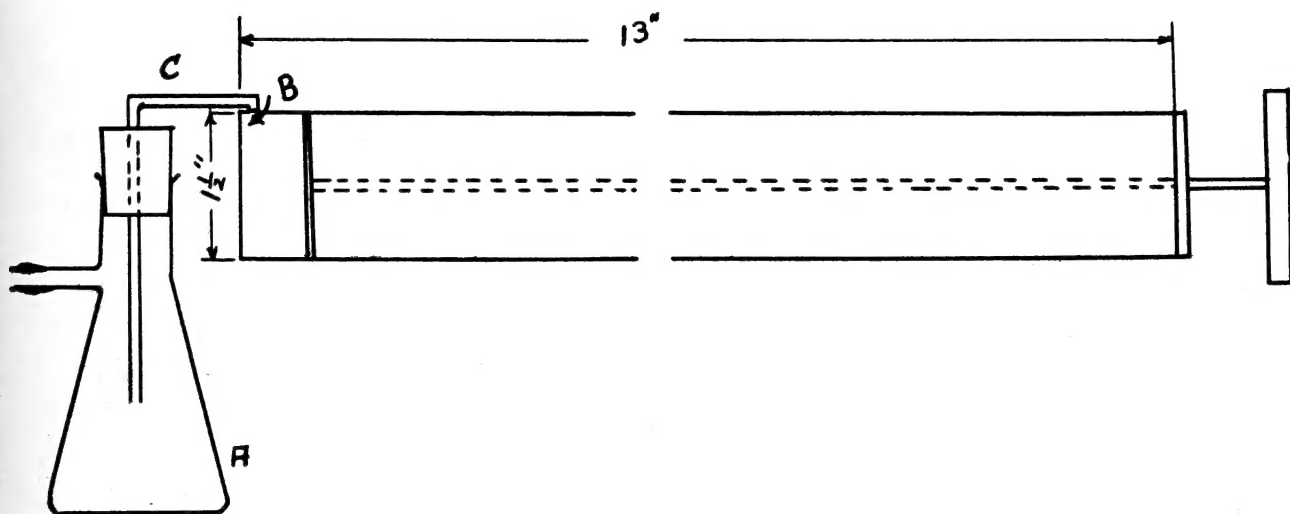


Figure 1.--A simple hand duster for the application of small quantities of dust.

